

MORRISON & FOERSTER LLP

Attorneys at Law
425 Market Street
San Francisco, California 94105-2482
Telephone: (415) 268-7000
Facsimile: (415) 268-7522

RECEIVED
CENTRAL FAX CENTER

NOV 11 2004

To:

NAME:	FACSIMILE:
U.S. Patent and Trademark Office	(703) 872-9306

FROM: Otis B. Littlefield - Reg. No. 48,751

DATE: November 11, 2004

NUMBER OF PAGES WITH COVER PAGE: 12

Preparer of this slip has confirmed that facsimile number given is correct: 10586/1xt4

CAUTION - CONFIDENTIAL

This facsimile contains confidential information which may also be privileged. Unless you are the addressee (or authorized to receive for the addressee), you may not copy, use, or distribute it. If you have received it in error, please advise Morrison & Foerster LLP immediately by telephone or facsimile and return it promptly by mail.

Re: U.S. Patent Application Serial No. 10/781,989
For: METHODS FOR PRODUCING IMMUNOGLOBULINS CONTAINING
PROTECTION PROTEINS AND THEIR USE
By: Andrew C. HIATT et al.
Our Reference: 41514-20003.03

Papers attached herewith:

1. Transmittal (1 page)
2. Information Disclosure Statement w/Form 1449 (10 pages)

Comments:

Please see attached documents. Thank you.

PTO/SB/21 (04-04)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**TRANSMITTAL
FORM**

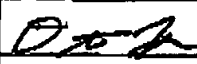
(to be used for all correspondence after initial filing)

TRANSMITTAL FORM (to be used for all correspondence after initial filing)		Application Number	10/781,989
		Filing Date	February 18, 2004
		First Named Inventor	Andrew C. HIATT
		Art Unit	Not Yet Assigned
		Examiner Name	Not Yet Assigned
Total Number of Pages in This Submission	12	Attorney Docket Number	415142000303

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement (3 pages) <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Paffion <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below): 1. Form PTO-1449 (7 pages) 2. Facsimile Coversheet (1 page)
Remarks: _____		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	MORRISON & FOERSTER LLP (Customer No. 20872) Otis. B. Littlefield - Reg. No. 48,751
Signature	
Date	November 11, 2004

I hereby certify that this correspondence is being sent via facsimile to the U.S. Patent and Trademark Office at fax no. (703) 872-8306, on the date shown below.

Dated: November 11, 2004

Signature:  (Laura Tsang)

sf-1816580

PATENT
Docket No. 415142000303

I hereby certify that this correspondence is being sent via facsimile to the U.S. Patent and Trademark Office at fax no.
(703) 872-9306 on November 11, 2004.


Laura Tsang

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Andrew C. HIATT et al.

Serial No.: 10/781,989

Filing Date: February 18, 2004

For: METHODS FOR PRODUCING
IMMUNOGLOBULINS CONTAINING
PROTECTION PROTEINS AND THEIR
USE

Examiner: Not Yet Assigned

Group Art Unit: Not Yet Assigned

RECEIVED
CENTRAL FAX CENTER
NOV 11 2004INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98MAIL STOP: AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Copies of the documents were previously submitted in an Information Disclosure Statement and/or Office Action, directed to the related application Serial Number 09/312,157, filed May 14, 1999, (Now

sf-1809366

Application Serial No. 10/781,989

2

Docket No. 415142000303

US Patent No. 6,303,341) and Serial Number 09/717,888, filed November 20, 2000 (Now US Patent No. 6,808,709) and, accordingly, copies are not included herewith. This protocol conforms with 37 C.F.R. § 1.98(d) and M.P.E.P. 609(A)(2). The Examiner is requested to make these documents of record in the application.

This Information Disclosure Statement is submitted:

- ☐ With the application; accordingly, no fee or separate requirements are required.
- ☐ Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114. However, if applicable, a certification under 37 C.F.R. § 1.97 (e)(1) has been provided.
- ☒ Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required. However, if applicable, a certification under 37 C.F.R. § 1.97 (e)(1) has been provided.
- ☐ After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
 - ☐ A fee is required. A check in the amount of ___ is enclosed.
 - ☐ A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided above; accordingly, no fee is believed to be due.
- ☐ After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided above and a check in the amount of ___ is enclosed.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided above and a Fee Transmittal form (PTO/SB/17 is attached to this submission in duplicate.)

Application Serial No. 10/781,989

3

Docket No. 415142000303

Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal form is separated from this document and the Patent Office determines that an extension and/or other relief (such as payment of a fee under 37 C.F.R. § 1.17 (p)) is required, Applicants petitions for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to Deposit Account No. 03-1952 referencing (415142000303). However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: November 11, 2004

Respectfully submitted,

By: 
Otis Littlefield
Registration No. 48,751

Morrison & Foerster LLP
425 Market Street
San Francisco, California 94105-2482
Telephone: (415) 268-6846
Facsimile: (415) 268-7522

sf-1809366

PTO/SB/08 (2-92)

Sheet 1 of 7

Form PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 415142000303

Application Number 10/781,989

Applicant

Andrew C. HIATT et al.

Filing Date February 18, 2004

Group Art Unit Not Yet Assigned

Mailing Date November 11, 2004

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	06/10/1986	4,594,244	Lehner et al.			
	2.	08/19/1986	4,607,388	Koizumaki et al.			
	3.	03/24/1987	4,652,448	Sadowski			
	4.	04/12/1988	4,736,866	Leder et al.			
	5.	09/26/1989	4,870,009	Evans et al.			
	6.	10/10/1989	4,873,191	Wagner et al.			
	7.	07/23/1989	5,034,322	Rogers et al.			
	8.	02/02/1993	5,183,756	Schlom			
	9.	02/13/1993	5,188,642	Shah et al.			
	10.	04/13/1993	5,202,422	Hiatt et al.			
	11.	09/20/1994	5,349,124	Fischloff et al.			
	12.	10/04/1994	5,352,440	Gilchrest et al.			
	13.	10/04/1994	5,352,446	Lehner.			
	14.	10/04/1994	5,352,605	Fraloy et al.			
	15.	12/29/1998	5,854,402	Lehner et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
	16.	05/06/1992	484 148	EP			
	17.	09/21/1994	0 371 017	EP			
	18.	11/13/1996	480014	EP			
	19.	01/29/1987	87/00551	WO			
	20.	09/07/1988	88/06455	WO			

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

sf- 1809295PTO/SB/ 08 (2-92)

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

PTO/SB/08 (2-92)
Sheet 2 of 7

Form PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 415142000303

Application Number 10/781,989

Applicant

Andrew C. HIATT et al.

Filing Date February 18, 2004

Group Art Unit Not Yet Assigned

Mailing Date November 11, 2004

21.	11/29/1990	90/14430	WO
22.	05/16/1991	91/06320	WO
23.	10/31/1991	91/16061	WO

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
	24.	Abdullah, Ruslan et al., "Efficient Plant Regeneration from Rice Protoplasts Through Somatic Embryogenesis," Biotechnology, 4:1087-1090 (1986).
	25.	Bakos et al. Expression and purification of biologically active domain 1 of the human polymeric immunoglobulin receptor. Molecular Immunology. vol. 31, No. 2, pp. 165-168, May 1994.
	26.	Banting, George et al., "Intracellular targetting signals of polymeric immunoglobulin receptors are highly conserved between species," FEBS Letters, 254:177-183 (1989).
	27.	Barnes, Wayne M., "Variable patterns of expression of luciferase in transgenic tobacco leaves," Proc. Natl. Acad. Sci. USA, 87:9183-9187 (1990).
	28.	Benbrook, Charles M. et al., "Herbicide Resistance: Environmental and Economic Issues," in Proceedings Bio Expo 1986, Butterworth, Stoneham, MA, pp. 27-34 (1986).
	29.	Benfey, Philip N. et al., "Regulated Genes in Transgenic Plants," Science, 244:174-181 (1989).
	30.	Benfey, Philip N. et al., "The Cauliflower Mosaic Virus 35S Promotor: Combinatorial Regulation of Transcription in Plants," Science, 250:959-966 (1990).
	31.	Brandtzaeg, P. & Prydz, H., "Direct evidence for an integrated function of J chain and secretory component in epithelial transport of immunoglobulins," Nature, 311:71-73 (1984).
	32.	Bytebler, Benny et al., "T-DNA organization in tumor cultures and transgenic plants of the monocotyledon Asparagus officinalis," Proc. Natl. Acad. Sci. USA, 84:5345-5349 (1987).
	33.	Callis, Judy et al., "Introns increase gene expression in cultured maize cells," Genes and Development, 1:1183-1200 (1987).
	34.	Carayannopoulos, L. et al., "Recombinant human IgA expressed in insect cells," Proc. Natl. Acad. Sci. U.S.A., 91:8348-8352 (1994).
	35.	Cocking and Davey, "Gene Transfer in Cereals," Science, 236:1259-1262 (1987).
	36.	Corthesy, B. et al., "Biochemical Characterisation of Recombinant Secretory component,"

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

sf- 1809295PTO/SB/ 08 (2-92)

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

PTO/SB/08 (2-92)

Sheet 3 of 7

Form PTO-1449

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 415142000303

Application Number 10/781,989

Applicant

Andrew C. HIATT et al.

Filing Date February 18, 2004

Group Art Unit Not Yet Assigned

Mailing Date November 11, 2004

Experimental, 50:A27, Abstract S08-08 (1994).

- | | |
|-----|---|
| 37. | Crago et al., "Antisera to the secretory component recognize the murine Fc receptor for IgA," <i>Journal of Immunology</i> 142(11):3909-3912 (1989). |
| 38. | de la Pena, A. et al., "Transgenic rye plants obtained by injecting DNA into young floral tillers," <i>Nature</i> , 325:274-276 (1987). |
| 39. | During et al. Synthesis and self-assembly of a functional monoclonal antibody in transgenic <i>Nicotiana tabacum</i> . <i>Plant Molecular Biology</i> 15: 281-293, 1990. |
| 40. | During et al., "Synthesis and self-assembly of a functional monoclonal antibody in transgenic <i>Nicotiana tabacum</i> ," <i>Plant Molecular Biology</i> 15:281-293 (1990). |
| 41. | During, "Wundinduzierbare expression und sekretion von T4 lysozym und monoklonalen antikörpern in <i>Nicotiana tabacum</i> ," <i>Inaugural Dissertation</i> (1988). |
| 42. | Eliasson et al., "Chimeric IgG-binding receptors engineered from staphylococcal protein A and streptococcal protein G," <i>Journal of Biological Chemistry</i> 263(9):4323-4327 (1989). |
| 43. | Fraley, Robert T. et al., "Expression of bacterial genes in plant cells," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 80:4803-4807 (1983). |
| 44. | Fromm, Michael E. et al., "Stable transformation of maize after gene transfer by electroporation," <i>Nature</i> , 319:791-793 (1986). |
| 45. | Hein, Mich B. et al., "Evaluation of Immunoglobulins from Plant Cells," <i>Biotechnol. Prog.</i> , 7:455-461 (1991). |
| 46. | Hess, Dieter, "Pollen-Based Techniques in Genetic Manipulation," <i>International Review of Cytology</i> , 107:367-395 (1987). |
| 47. | Hiatt et al., "Characterization and Applications of Antibodies Produced in Plants," <i>Intern. Rev. Immunol.</i> 10: 139-152 (1993). |
| 48. | Hiatt, A. and M. Hein, "Structure, Function and Uses of Antibodies from Transgenic Plants and Animals," <i>The Pharmacology of Monoclonal Antibodies</i> , Chapter 12, pp. 317-330, M. Rosenberg and G.P. Moore eds., Springer-Verlag, Berlin (1994). |
| 49. | Hiatt, A. et al., "Monoclonal antibody engineering in plants," <i>FEBS Letters</i> , 307(1):71-75 (1992). |
| 50. | Hiatt, Andrew, "Production of antibodies in transgenic plants," <i>Nature</i> , 342:76-78 (1989). |
| 51. | Horsch, R. B. et al., "A Simple and General Method for Transferring Genes into Plants," <i>Science</i> , 227:1229-1231 (1985). |

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

sf- 1809295PTO/SB/ 08 (2-92)

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

PTO/SB/08 (2-92)

Sheet 4 of 7

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>		Docket Number 415142000303	Application Number 10/781,989
		Applicant Andrew C. HIATT et al.	
		Filing Date February 18, 2004	Group Art Unit Not Yet Assigned
		Mailing Date November 11, 2004	
	52.	Huang, Ann L. et al., "Glucocorticoid Regulation of the Ha-MuSV p21 Gene Conferred by Sequences from Mouse Mammary Tumor Virus," Cell, 27:245-255 (1981).	
	53.	Huse, William D. et al., "Generation of a Large Combinatorial Library of the Immunoglobulin Repertoire in Phage Lambda," Science, 246:1275-1281 (1989).	
	54.	Jorgensen, Richard et al., "T-DNA is organized predominantly in inverted repeat structures in plants transformed with Agrobacterium tumefaciens C58 derivatives," Mol. Gen. Genet., 207:471-477 (1987).	
	55.	Klein, T. M. et al., "High-velocity microprojectiles from delivering nucleic acids into living cells," Nature, 327:70-73 (1987).	
	56.	Klein, Theodore M. et al., "Stable genetic transformation of intact Nicotiana cells by the particle bombardment process," Proc. Natl. Acad. Sci. U.S.A., 85:8502-8505 (1988).	
	57.	Kobayashi, Kunihiko et al., "Studies on human secretory IgA (II). Comparative studies on a fragment of secretory component derived from secretory IgA and fragments obtained by enzymatic digestion of free secretory component," Immunochemistry, 10:73-80 (1973).	
	58.	Koshland, Marian Elliot, "The Immunoglobulin Helper: The J Chain," Immunoglobulin Genes, Chap. 18, pp. 345-359, Academic Press (Honjo, Alt and Rabbits, Eds. 1989).	
	59.	Kraehenbuhl, Jean-Pierre et al., "Transepithelial transport and mucosal defence II: secretion of IgA," Trends in Cell Biol., 2:170-174 (1992).	
	60.	Kraehenbul et al, "Receptor-mediated transepithelial transport of secretory antibodies and engineering of mucosal antibodies," Advances in Experimental Medicine and Biology 216B:1053-1060 (1987).	
	61.	Krajci, Peter et al., "Molecular cloning and exon-intron mapping of the gene encoding human transmembrane secretory component (the poly-Ig receptor)," Eur. J. Immunol., 22:2309-2315 (1992).	
	62.	Krajci, Peter et al., "Molecular cloning of the human transmembrane secretory component (poly-Ig receptor) and its mRNA expression in human tissues," Biochem. Biophys. Res. Comm., 158:783-789 (1989).	
	63.	Larrick, J. W. and R. Balint, "Recombinant Therapeutic Human Monoclonal Antibodies," The Pharmacology of Monoclonal Antibodies, Chapter 2, pp. 23-48, M. Rosenberg and G.P. Moore eds., Springer-Verlag, Berlin (1994).	
	64.	Lee, C. K. et al., "Oral Administration of Polymeric Immunoglobulin A Prevents Colonization with Vibrio cholerae in Neonatal Mice," Infection and Immunity, 62(3):887-891 (1994).	
EXAMINER:		DATE CONSIDERED:	
EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.			
sf- 1809295PTO/SB/ 08 (2-92)		Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE	

PTO/SB/08 (2-92)

Sheet 5 of 7

Form PTO-1449		Docket Number 415142000303	Application Number 10/781,989
INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>		Applicant Andrew C. HIATT et al.	
		Filing Date February 18, 2004	Group Art Unit Not Yet Assigned
		Mailing Date November 11, 2004	
	65.	Lindh, E., "Increased Resistance of Immunoglobulin A Dimers to Proteolytic Degradation After Binding of Secretory Component," The Journal of Immunology, 114(1):284-286 (1975).	
	66.	Lorz, Horst et al., "Gene transfer to cereal cells mediated by protoplast transformation," Mol. Gen. Genet., 199:178-182 (1985).	
	67.	Luo, Zhong-xun et al., "A Simple Method for the Transformation of Rice Via the Pollen-Tube Pathway," Plant Mol. Biol. Reporter, 6:165 (1988).	
	68.	Ma, J. K.-C. et al., "Generation and Assembly of Secretory Antibodies in Plants," Science, 268:716-719 (1995).	
	69.	Ma, J. K.-C. et al., "Assembly of monoclonal antibodies with IgG1 and IgA heavy chain domains in transgenic tobacco plants," Eur. J. Immunol. 24:131-138 (1994).	
	70.	Ma, J. K.-C. et al., "Specificity of monoclonal antibodies in local passive immunization against Streptococcus mutans," Clin. Exp. Immunol. 77:331-337 (1989).	
	71.	Marcotte, Jr., William R. et al., "Regulation of a wheat promoter by abscisic acid in rice protoplasts," Nature, 335:454-457 (1988).	
	72.	Mark, G. E. and E. A. Padlan, "Humanization of Monoclonal Antibodies," The Pharmacology of Monoclonal Antibodies, Chapter 4, pp. 105-134, M. Rosenberg and G.P. Moore eds., Springer-Verlag, Berlin (1994).	
	73.	Marshall, R. D., "Glycoproteins," Annual Review of Biochemistry, 41:673-702, Annual Reviews Inc. (Snell, Boyer, Meister, and Sinsheimer, Eds. 1972).	
	74.	Marshall, R. D., "The Nature and Metabolism of the Carbohydrate-Peptide Linkages of Glycoproteins," Biochem. Soc. Symp., 40:17-26 (1974).	
	75.	Matsuuchi, Linda et al., "Immunoglobulin J chain gene from the mouse," Proc. Natl. Acad. Sci. U.S.A., 83:456-460 (1986).	
	76.	McCabe, Dennis E. et al., "Stable transformation of soybean (glycine max) by particle acceleration," Biotechnology, 6:923-926 (1988).	
	77.	McNabb, Paul C. et al., "Host Defense Mechanisms at Mucosal Surfaces," Ann. Rev. Microbiol., 35:477-496 (1981).	
	78.	Mostov, Keith A., "Trans epithelial transport of immunoglobulins," Ann. Rev. Immunol., 12:63-84 (1994).	
	79.	Mostov, Keith E. et al., "The receptor for transepithelial transport of IgA and IgM contains multiple immunoglobulin-like domains," Nature, 308:37-43 (1984).	
EXAMINER:		DATE CONSIDERED:	
EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.			
sf- 1809295PTO/SB/ 08 (2-92)		Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE	

Form PTO-1449		Docket Number 415142000303	Application Number 10/781,989
INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>		Applicant Andrew C. HIATT et al.	
		Filing Date February 18, 2004	Group Art Unit Not Yet Assigned
		Mailing Date November 11, 2004	
	80.	Neuhaus, G. et al., "Transgenic rapeseed plants obtained by the microinjection of DNA into microspore-derived embryoids," Theor. Appl. Genet., 75:30-36 (1987).	
	81.	Odell, Joan T. et al., "Identification of DNA sequences required for activity of the cauliflower mosaic virus 35S promoter," Nature, 313:810-812 (1985).	
	82.	Orlandi, Rosaria et al., "Cloning immunoglobulin variable domains for expression by the polymerase chain reaction," Proc. Natl. Acad. Sci. U.S.A., 86:3833-3837 (1989).	
	83.	Paszkowski, Jerzy et al., "Direct gene transfer to plants," The EMBO Journal, 3:2717-2722 (1989).	
	84.	Piskurich, J. F. et al., "Molecular Cloning of Mouse Polymeric Ig Receptor cDNA," J. Immunol., 150:38, Abstract 203 (1993).	
	85.	Potrykus, Ingo et al., "Direct gene transfer to cells of a graminaceous monocot," Mol. Gen. Genet., 199:183-188 (1985).	
	86.	Rogers, S. G. et al., "Improved Vectors for Plant Transformation: Expression Cassette Vectors and New Selectable Markers," Methods in Enzymology, 153:253-277 (1987).	
	87.	Silbart, Lawrence K. et al., "Reduction of Intestinal Carcinogen Absorption by Carcinogen-Specific Secretory Immunity," Science, 243:1462-1464 (1989).	
	88.	Smith, Roberta and T. Lehner, "Characterisation of monoclonal antibodies to common protein epitopes on the cell surface of Streptococcus mutans and Streptococcus sobrinus," Oral Microbiol. Immunol., 4:153-158 (1989).	
	89.	Solari et al., "Cellular location of the cleavage event of the polymeric immunoglobulin receptor and fate of its anchoring domain in the rat hepatocyte," Biochemical Journal 257:759-768 (1989).	
	90.	Spielmann, Albert et al., "T-DNA structure in transgenic tobacco plants with multiple independent integration sites," Mol. Gen. Genet., 205:34-41 (1986).	
	91.	Toriyama, Kinya et al., "Haploid and diploid plant regeneration from protoplasts of anther callus in rice," Theor. Appl. Genet., 73:16-19 (1986).	
	92.	Uchimiya, Hirofumi et al., "Expression of a foreign gene in callus derived from DNA-treated protoplasts of rice (Oryza sativa L.)," Mol. Gen. Genet., 204:204-207 (1986).	
	93.	Vasil, Indra K., "Progress in the regeneration and genetic manipulation of cereal crops," Biotechnology, 6:397-402 (1988).	
	94.	Verbeet et al., GenBank Accession No. X81371.	
	95.	Williams, Alan F. et al., "The Immunoglobulin Superfamily" Immunoglobulin Genes, Chap.	
EXAMINER:		DATE CONSIDERED:	
EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.			
sf- 1809295PTO/SB/ 08 (2-92)		Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE	

